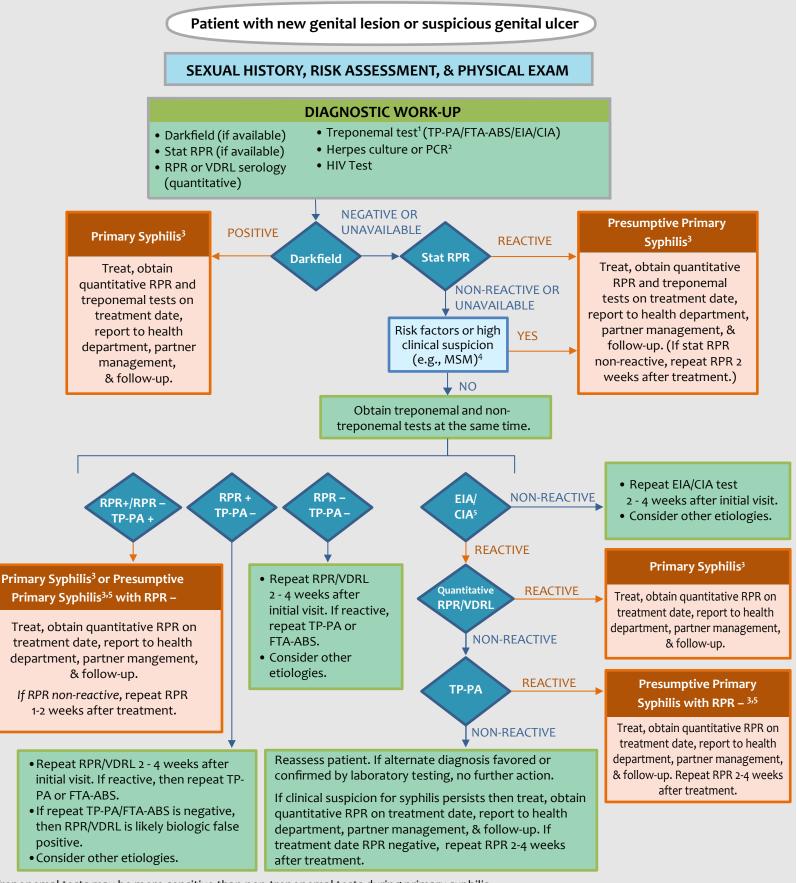
Evaluating Patients For Primary Syphilis



 ¹ Treponemal tests may be more sensitive than non-treponemal tests during primary syphilis.
² Also consider culture for Haemophilus ducreyi (chancroid) if exposure in endemic areas or if lesion does not respond to syphilis treatment.
³ All patients with suspected syphilis should be tested for HIV infection and screened for other STDs. Repeat HIV testing of patients with primary syphilis 3 months after the first HIV test, if the first test is negative.

⁴ If the patient is a man who has sex with men (MSM) or has high risk sexual behavior or clinical exam with classic features of a syphilitic ulcer, then standard of care includes presumptive treatment at the time of the inital visit before diagnostic test results are available. Presumptive treatment is also recomended if patient follow-up is a concern.

⁵ If the patient does not respond to treatment, repeat RPR/VDRL after treatment and consider other etiologies.

SEXUAL HISTORY, RISK ASSESSMENT, & PHYSICAL EXAM

Sexual History, Risk Assessm	ent (past year)
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- Gender of partners, number of partners (new, anonymous, serodiscordant HIV status, exchange of sex for drugs or money)
- Types of sexual exposure
- Recent STDs; HIV serostatus
- Substance abuse
- Condom use
- **History of Syphilis** • Prior syphilis (last serologic test & last treatment)

DIAGNOSTIC ISSUES IN PRIMARY SYPHILIS

- **Darkfield** ~ 80% sensitive, varies with skill of examiner; decreased sensitivity as lesion ages
- A negative RPR/VDRL does not exclude syphilis diagnosis; ~75-85% sensitive in primary syphilis
- Use same test (RPR or VDRL) in sequential testing; titers are not interchangeable
- Need both non-treponemal (RPR or VDRL) and treponemal test (TP-PA, FTA-ABS, EIA, CIA) to make syphilis diagnosis
- Treponemal tests can remain positive for life; utility limited in patients with history of prior syphilis, comparison of non-treponemal titers needed
- RPR/VDRL titer interpretation should be taken in context of prior titers. clinical scenario and documented treatment history

Note: Evaluate for neurosyphilis (assess if neurologic, ophthalmic or otic symptoms present, as neurosyphilis can occur at any stage of syphilis)

TREATMENT & FOLLOW-UP

Treatment of Primary Syphilis

Recommended Regimen

• Benzathine Penicillin G 2.4 million units IM x 1

Alternative Regimens for Penicillin Allergic Non-Pregnant Patients:

Efficacy not well established & not studied in HIV+ patients; close follow-up essential:

- Doxycycline 100 mg po bid x 2 weeks or
- Tetracycline 500 mg po gid x 2 weeks
- *Pregnant patients with penicillin allergy should be desensitized and treated with penicillin

See CDC STD Treatment Guidelines: www.cdc.gov/std/treatment

California STD Treatment Guidelines Grid:

www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/ STD-Treatment-Guidelines-Color.pdf

****Additional Testing and Follow-up**

Note: Also test for HIV, GC/CT, and pregnancy (if female of reproductive age)

- 1-2 weeks: clinical follow-up
- 3, 6, 9, 12, 24 months: serologic follow-up for HIV+ patients
- 6, 12 months: serologic follow-up for HIV- patients
- Failure of titer to decline fourfold (e.g. 1:64 to \leq 1:16) within 6-12 months from titer at time of treatment may indicate treatment failure. Titer decline may be slower in HIV+ patients.
- Consider retreatment and CSF evaluation if titer fails to decline appropriately

REPORTING & PARTNER MANAGEMENT

- All syphilis cases and presumptive cases must be reported to the local healt department within one working day of diagnosis
- Local health departments will assist in partner notification & management
- Contact Number at Local Health Department:

• Lymph nodes • Skin • Palms & soles Neurologic

• Eyes

Physical Exam

• Oral cavity

- Genitalia/pelvic
- Perianal

CLINICAL PRESENTATIONS OF PRIMARY SYPHILIS

- Lesion appears 10-90 days after contact at site of exposure; may persist for 2-3 weeks then resolves
- Usually genitorectal but may be extragenital, depending on exposure site
- Clinical presentation, typical or atypical
- Typical: single painless, indurated, clean-based ulcer with rolled edges & bilateral painless adenopathy
- Atypical: can mimic herpes & other genital ulcers
- ~25% present with multiple lesions
- Lesions of primary and secondary syphilis can be present at the same time, especially in HIV positive individuals

Differential Diagnosis

- Herpes (most common), primary HIV ulcers, chancroid, granuloma inguinale, trauma, and many non-STD infectious and non-infectious causes of genital ulcers
- More than one etiology can be present at the same time



Syphilitic Ulcer, Shaft



Multiple Syphilitic Ulcers, Shaft



Syphilitic Ulcer, Vulva



Crusted Syphilitic Ulcer, Urethra

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To Order Additional Copies

See the online version of the Primary Syphilis Algorithm on the clinical resources page of the CA PTC website: www.californiaptc.com

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Syphilitic Ulcer, Shaft



Multiple Syphilitic Ulcers Resembling Herpe



Multiple Syphilitic Ulcers, Vulva



Syphilitic Ulcer, Perianal